



# भारत का राजपत्र The Gazette of India

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इस भाग में भिन्न पाठ सहायी दी जाती है जिससे कि यह असंग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## नोटिस (NOTICE)

नीचे लिखे भारत के असाधारण राजपत्र 2 फरवरी 1973 तक प्रकाशित किये गये हैं :—

The undermentioned Gazettes of India Extraordinary were published up to the 2nd February 1973 :—

अंक Issue No.	संख्या और तिथि No. and Date	द्वारा जारी किया गया Issued by	विषय Subject
1	2	3	4
12	सं० 4-ई०टी०सी० (पी०एन०) 73/दिनांक 20 जनवरी, 1973। No. 4—ETC (PN)/73, dated 20th January, 1973	विदेश व्यापार मंत्रालय Ministry of Foreign Trade	सभी प्रकार के कच्चे चमड़ों और खालों (मेमने की फरवाली खालों को छोड़कर) का निर्यात Export of raw hides and skins (Except lamb fur skins) all types.
13	सं० 1/19/71-परामर्शदायी परिषद्, दिनांक 20 जनवरी, 1973। No. 1/19/71-Ad. C, dated 20th January 1973	तदैव Do.	व्यापार विषयक परामर्शदायी परिषद् का 1 जनवरी, 1973 से आगामी दो वर्ष के लिए पुनर्गठन। Reconstitution of the Advisory Council on Trade for a term of 2 years w.e.f. 1st January, 1973.
14	सं० 6-आई० टी० सी० (पी० एन०)/73, दिनांक 22 जनवरी, 1973। No. 6-ITC(PN)/73, dated 22nd January, 1973	तदैव Do.	भारत स्वीडिश विकास सहयोग करार 1972 में "वित्तीय स्रोतों" 1 करोड़ 50 लाख स्वीडिश क्रेडिट केट्टेन्हे के अन्तर्गत साइ-सेंस जारी करने के सम्बन्ध में लागू होने वाली शर्तें। Terms and conditions governing the issuance of import licences under the "Financial Resources" tranche of Ekrs. 15 million in the Indo-Swedish Development Corporation Agreement, 1972.
15	सं० 7-आई० टी० सी० (पी० एन०)/73, दिनांक 23 जनवरी, 1973 No. 7-ITC(PN)/73, dated 23rd January, 1973	तदैव Do.	अप्रैल, 1972—मार्च, 1973, वर्ष के लिये पंजीकृत निर्यातकों के लिए आयात नीति (संशोधन सं० 43)। Import Policy for Registered Exporters for the year April 1972—March 1973 (Amendment No. 43).

1	2	3	4
16 सं० 8-आई० टी० सी० (पी० एन०)/73, दिनांक 24 जनवरी, 1973	विदेश व्यापार मंत्रालय	28-3-1972 से 27-3-1973 अवधि के दौरान बंगला देश) के साथ व्यापार।	
No. 8-ITC(PN)/73, dated 24th January, 1973	Ministry of Foreign Trade	Trade with Bangladesh during the period from 28-3-1972—27-3-1973.	
17 सं० 9-आई० टी० सी० (पी० एन०)/73, दिनांक 25 जनवरी, 1973।	तदैव	भारत-अफगान व्यापार व्यवस्था अवधि, 1971-72 के अन्तर्गत किये गये आयातों/निर्यातों का हस्तान्तरण।	
No. 9-ITC(PN)/73, dated 25th January, 1973 .	Do.	Transfer of Imports/Exports effected under Indo-Afghan Trade Arrangement period, 1971-72.	
18 सं० 3(5)/71-पी० एन्ड पी०, दिनांक 25 जनवरी, 1973	तदैव	संकल्प सं० 3(5)/71-पी० एंड पी०, दिनांक 27 जून, 1972 के सारणी में परिवर्तन।	
No. 3(5)/71-P. & P., dated 25th January, 1973	Do.	Changes in the Schedule to The Resolution No. 3(5)/71 P. & P., dated the 27th June, 1972.	
19 सं० 429/39/72-ए० वी० डी०-4, दिनांक 26 जनवरी, 1973।	मन्त्रिमण्डल सचिवालय	श्री काट्टार सैयद अहमद शाह जो प्रवर्तन निर्देशालय के मद्रास क्षेत्रिय कार्यालय में मुख्य प्रवर्तन अधिकारी के पद पर कार्य कर रहे हैं उनको एक सराहना-पत्र प्रदान।	
No. 429/39/72-AVD-IV, dated 26th January, 1973	Cabinet Secretariat	Awarding of appreciation certificate to Shri Cottar Syeed Ahmed Shah, Chief Enforcement Officer, Madras, Zone Office of the Directorate of Enforcement.	
20 सं० ए० 21021/6/72-प्रशा० 3-ख, दिनांक 26 जनवरी, 1973।	वित्त मंत्रालय	श्री दलपतसिंह रामजी भाई परमार, निरीक्षक, सीमा शुल्क तथा केन्द्रीय उत्पादन-शुल्क सामाहर्ता-कार्यालय, अहमदाबाद जी को प्रशंसा प्रमाण-पत्र प्रदान।	
No. A-21021/6/72-AD, III-B, dated 26th January, 1973	Ministry of Finance	Awarding of appreciation certificate to Shri Dalpatsinh Ramji-bhai Parmar, Inspector of Customs & Central Excise, Collectorate of Central Excise, Ahmedabad.	
21 सं० ए० 21021/6/72-प्रशा० 3-ख, दिनांक 26 जनवरी, 1973।	तदैव	श्री भालचन्द्र शान्ताराम बावडेकर, अजमेर, विशेष जांच पड़ताल तथा गुप्त सूचना शाखा, सीमा-शुल्क विभाग, बम्बई, श्री एच सी मुवेजा सीमा-शुल्क-निरीक्षक (निवारक) सीमा-शुल्क विभाग, बम्बई, श्री ए० कान्तिमतिनाथन, अधीक्षक, केन्द्रीय उत्पादन-शुल्क, केन्द्रीय उत्पादन-शुल्क समाहर्ता कार्यालय, मदुरै को प्रशंसा प्रमाण-पत्र प्रदान।	
No. A-21021/6/72-Ad. III-B, dated 26th January, 1973	Do.	Awarding of appreciation Certificate to S/Shri B. S. Bawedkar, Appriser, S. I. & I, Br. Customs Deptt. Bombay H. C. Muttreja, Customs Inspector (Prevention) Customs, Deptt., Bombay, A. Kanthimathinathan, Supdt. of C. E. Collectorate of Central Excise, Madurai.	

1	2	3	4
21 सं० 8-प्रेज/73, दिनांक 26 जनवरी, 1973 No. 8-Pres/73, dated 26th January, 1973.	राष्ट्रपति सचिवालय President's Secretariat	पद्म विभूषण, पद्म भूषण और पद्मश्री उपाधियों के प्रदान। Awarding of Padma Vibhushan, Padma Bhushan and Padma Shri Awards.	
22 सं० 10/आई० टी० सी० (पी० एन०)/73, दिनांक 27 जनवरी, 1973। No. 10/ITC(PN)/73, dated 27th January, 1973	विदेश व्यापार मन्त्रालय Ministry of Foreign Trade	अप्रैल 1972—मार्च, 1973 वर्ष के लिये पंजीकृत निर्यातकों के लिये आयात नीति (संशोधन सं० 44)। Import Policy for Registered Exporters for the year April '72—March, 73 (Amendment No. 44)	
23 सं० 11-आई० टी० सी० (पी० एन०)/73, दिनांक 29 जनवरी, 1973। No. 11-ITC(PN)/73, dated 29th January, 1973	विदेश व्यापार मन्त्रालय Ministry of Foreign Trade	28-3-72 से 27-3-73 तक की अवधि के दौरान बंगला देश के साथ व्यापार। Trade with Bangladesh during the period from 28th March, 1972 to 27th March, 1973.	
24 सं० 12-आई० टी० सी० (पी० एन०)/73, दिनांक 31 जनवरी, 1973। No. 13-ITC(PN)/73, dated 31st January, 1973	तदैव Do.	अप्रैल, 1972—मार्च, 1973 वर्ष के लिए पंजीकृत निर्यातकों के लिए आयात नीति (संशोधन सं० 45)। Import Policy for Registered Exporters for the year April 1972—March 1973 (Amendment No. 45).	
25 सं० 13-आई० टी० सी० (पी० एन०)/73, दिनांक 31 जनवरी, 1973। No. 13-ITC(PN)/73, dated 31st January, 1973	तदैव Do.	वार्षिक आधार पर सितम्बर, 1971—अगस्त, 1972 लाई-सेंस अवधि के दौरान ईराक से "खजूरो" [क्रम संख्या 21(बी)/4] का आयात वैधता अवधि में वृद्धि। Import of "Dates" (S. No. 21(6)/IV) from Iraq during September, 1971, August, 1972 licensing period on annual basis-Extension in the validity period.	
25-A सं० 14-आई० टी० सी० (पी० एन०)/73, दिनांक 1 फरवरी, 1973। No. 14-ITC(PN)/73, dated 1st February, 1973	तदैव Do.	यू० के०/भारत अनुरक्षण अधून, 1972 के अन्तर्गत आयातों के लिये लाईसेंस जारी करने से सम्बन्धित शर्तों की अनुसूची। Schedule of conditions relating to the issue of licences for imports under the U.K./India Maintenance Loan 1972.	
26 सं० 15-आई० टी० सी० (पी० एन०)/73, दिनांक 2 फरवरी, 1973। No. 15-ITC(PN)/73, dated 2nd February, 1973	तदैव Do.	अप्रैल, 1972—मार्च, 1973 वर्ष के लिये पंजीकृत निर्यातकों के लिये आयात नीति (संशोधन सं० 46)। Import Policy for Registered Exporters for the year April 1972—March 1973 (Amendment No. 46).	

ऊपर लिखे असाधारण राजपत्रों की प्रतियां प्रकाशन प्रबन्धक, सिविल लाइन्स, दिल्ली के नाम मांग-पत्र भेजने पर भेज दी जाएंगी।  
मांग-पत्र प्रबन्धक के पास इन राजपत्रों के जारी होने की तिथि से दस दिन के भीतर पहुंच जाने चाहिए।

Copies of the *Gazettes Extraordinary* mentioned above will be supplied on indent to the Manager of Publications, Civil Lines, Delhi. Indents should be submitted so as to reach the Manager within ten days of the date of issue of these *Gazettes*.

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## भाग I—खण्ड 1

## PART I—SECTION 1

(रक्षा मंत्रालय को छोड़कर) भारत सरकार के मंत्रालयों और उच्चतम न्यायालय द्वारा जारी की गई विधितर नियमों, विनियमों तथा आदेशों और संकल्पों से सम्बन्धित अधिसूचनाएं

Notifications relating to Non-Statutory Rules, Regulations, Orders and Resolutions issued by the Ministries of the Government of India (other than the Ministry of Defence) and by the Supreme Court]

## समाज कल्याण विभाग

नई दिल्ली-1, दिनांक 7 मार्च, 1973

सं० 13/11/72-एस० डब्ल्यू०-5—इस विभाग के सम संख्यक संकल्प दिनांक 23 जून, 1972 तथा शुद्धि पत्र दिनांक 23 जनवरी, 1973 के प्रतिस्थापन में पुनर्गठित केन्द्रीय सलाहकार बोर्ड की रचना निम्नलिखित प्रकार से होगी :—

1. समाज कल्याण विभाग अध्यक्ष  
(शिक्षा और समाज कल्याण मंत्रालय)  
में उप मंत्री ।
2. श्री पी० पी० आई० वैद्यानाथन, सदस्य  
अपर सचिव,  
समाज कल्याण विभाग, भारत सरकार,  
नई दिल्ली ।
3. उप सचिव (जेल कार्य से सम्बन्ध) सदस्य  
गृह मंत्रालय, भारत सरकार,  
नई दिल्ली ।
4. निदेशक, सदस्य  
पुलिस अनुसंधान तथा विकास ब्यूरो,  
गृह मंत्रालय,  
नई दिल्ली ।
5. श्री ए० के० श्रीनिवासमूर्ति, सदस्य  
उप विधायी परामर्श दाता,  
विधि मंत्रालय,  
नई दिल्ली ।
6. श्री जे० जे० पानाकल, सदस्य  
अपराध विज्ञान तथा सुधार प्रशासन विभाग  
के प्रधान,  
टाटा इन्स्टीट्यूट आफ सोशल साइंसेस,  
बम्बई ।
7. श्री सुशील चंद्र, सदस्य  
निदेशक, समाज शास्त्र तथा मानव सम्बन्धी  
का जे० के० संस्थान,  
लखनऊ विश्वविद्यालय, उ० प्र०,

8. प्रोफेसर (डा०) सीता बसु, सदस्य  
सुधार सेवाओं तथा सामाजिक कार्य में  
ज्येष्ठ लेक्चरर,  
स्कूल आफ सोशल वर्क,  
3, यूनिवर्सिटी रोड,  
नई दिल्ली-7 ।
9. जेलों के महानिरीक्षक, सदस्य  
पश्चिम बंगाल,  
कलकत्ता ।
10. जेलों के महानिरीक्षक, सदस्य  
तामिलनाडु, मद्रास ।
11. जेलों के महानिरीक्षक सदस्य  
उत्तर प्रदेश, लखनऊ ।
12. जेलों के महानिरीक्षक, सदस्य  
पंजाब, चण्डीगढ़ ।
13. जेलों के महानिरीक्षक, सदस्य  
केरल, त्रिवेन्द्रम ।
14. समाज कल्याण निदेशक, सदस्य  
महाराष्ट्र, पूना ।
15. समाज कल्याण निदेशक, सदस्य  
गुजरात, अहमदाबाद ।
16. समाज कल्याण निदेशक, सदस्य  
मध्य प्रदेश, भोपाल ।
17. निदेशक, सदस्य  
सुधार सेवाओं का केन्द्रीय ब्यूरो,  
समाज कल्याण विभाग,  
भारत सरकार, नई दिल्ली ।

## आदेश

आदेश दिया जाता है कि इस शुद्धि पत्र की प्रतिलिपि बोर्ड के सभी सदस्यों, भारत सरकार के सभी मंत्रालयों, योजना आयोग, मंत्रीमंडल सचिवालय, प्रधान मंत्री सचिवालय, लोक सभा सचिवालय, राज्य सभा सचिवालय, संसद् कार्य विभाग, राज्य सरकारों/संघ शासित क्षेत्रों के सभी मुख्य सचिवों को प्रेषित की जाए ।

यह भी आदेश दिया जाता है कि इस शुद्धि पत्र को साधारण सूचना के लिए भारत के राजपत्र में प्रकाशित किया जाए ।

टी० एस० एन० स्वामी, अवर सचिव

## DEPARTMENT OF SOCIAL WELFARE

New Delhi-1, the 7th March 1973

## CORRIGENDUM

F. No. 13-11/72-SW-5.—In supersession of this Department Resolution of even number, dated the 23rd June, 1972 and Corrigendum dated the 23rd January, 1973, composition of the re-constituted Central Advisory Board on Correctional Services will be as follows:—

- |   |          |
|---|----------|
| 1. Deputy Minister in the Department of Social Welfare (Ministry of Education and Social Welfare).  | Chairman |
| 2. Shri P. P. I. Vaidanathan, Additional Secretary, Department of Social Welfare, Government of India, New Delhi.                           | Member   |
| 3. Deputy Secretary, (dealing with Jail Affairs) Ministry of Home Affairs, Government of India, New Delhi.                                  | Member   |
| 4. Director, Bureau of Police Research and Development, Ministry of Home Affairs, Government of India, New Delhi.                           | Member   |
| 5. Shri A. K. Srinivasamurthy, Deputy Legislative Counsel, Ministry of Law, New Delhi.  | Member   |
| 6. Shri J. J. Panakal, Head of the Department of Criminological and Correctional Administration, Tata Institute of Social Sciences, Bombay. | Member   |
| 7. Shri Sushil Chandra, Director of J. K. Institute of Sociology and Human Relations, University of Lucknow, Lucknow, Uttar Pradesh.        | Member   |
| 8. Prof. (Dr.) Sita Basu, Senior Lecturer in Correctional Services, and Social Work, 3, University Road, Delhi-7.                           | Member   |
| 9. Inspector General of Prisons, West Bengal, Calcutta.   | Member   |
| 10. Inspector General of Prisons, Tamil Nadu, Madras, Government of India.  | Member   |
| 11. Inspector General of Prisons, Uttar Pradesh, Lucknow.   | Member   |
| 12. Inspector General of Prisons, Punjab, Chandigarh.   | Member   |
| 13. Inspector General of Prisons, Kerala, Trivandrum.   | Member   |
| 14. Director of Social Welfare, Maharashtra, Poona.   | Member   |
| 15. Director of Social Welfare, Gujarat, Ahmedabad.   | Member   |
| 16. Director of Social Welfare, Madhya Pradesh, Bhopal.   | Member   |

17. Director, Central Bureau of Correctional Services, Department of Social Welfare, Government of India, New Delhi. *Member Secretary*

ORDER.—Ordered that a copy of this Corrigendum be sent to all the Members of the Board, all Ministries of the Government of India, Planning Commission, Cabinet Secretariat, Prime Minister's Secretariat, Department of Parliamentary Affairs, All Chief Secretaries of State Governments/Union Territories.

Ordered also that the Corrigendum be published in the Gazette of India for general information.

T. S. N. SWAMI, Under Secy.

## MINISTRY OF RAILWAYS

(Railway Board)

New Delhi-1, the 2nd February 1973

## CORRIGENDUM

No. 72-E(GR)I/20/4.—In the Ministry of Railways (Railway Board) notification No. 72/E(GR)I/20/4 published in the Gazette of India Part I, Section 1 in pages 1116 to 1119, after the Rules insert the following:

(Here enter Appendices I, II, III & IV).

H. F. PINTO, Secy., Rly. Board

## APPENDIX I

(See Rule 3)

The examination shall be conducted according to the following plan:

Part I—Written examination carrying a maximum of 600 marks in the subjects as shown below:

Part II—Personality Test (including psychological tests) carrying a maximum of 400 marks. (Vide Rule 13).

2. The subjects of the written examination under Part I, the time allowed and the maximum marks allotted to each subject/paper shall be as follows:—

Sl. Subject No.	Time Allowed	Maximum Marks
1. English . . . . .	2 hours	150
2. Science and General knowledge . . . . .	2 hours	150
3. Mathematics . . . . .		
PAPER I		
Algebra, Plans Geometry and Elementary Mensuration, and Analytical Geometry . . . . .	2 hours	150
PAPER II		
Elementary Trigonometry, Elements of Differential Calculus and Statics and Dynamics . . . . .	2 hours	150
		300

3. CANDIDATES ARE EXPECTED TO BE FAMILIAR WITH THE METRIC SYSTEM OF WEIGHTS AND MEASURES IN THE QUESTION PAPERS. WHENEVER NECESSARY, QUESTIONS INVOLVING THE USE OF METRIC SYSTEM OF WEIGHTS AND MEASURES MAY BE SET.

4. Question papers will be approximately of the Intermediate standard.

5. All papers must be answered in English.

6. Candidates must write the answers in their own hand. In no circumstances will they be allowed the help of a scribe to write the answers for them.

7. The syllabus for the examination will be as shown in the attached Schedule.

8. The Commission have the discretion to fix qualifying marks in any or all the subjects at the examination.

9. Marks will not be allotted for mere superficial knowledge.

10. Deduction up to 5 per cent of the maximum marks for the written subjects will be made for illegible handwriting.

11. Credit will be given for orderly, effective and exact expression combined with due economy of words in all subjects of the examination.

### SCHEDULE

**ENGLISH.**—The questions will be designed to test the candidate's understanding and command of the language. Among other tests a passage will be set for the précis.

#### *Science and General Knowledge*

The question paper is intended to test the candidates' general scientific knowledge in Physics and Chemistry; and General Knowledge including Geography, History and Current Affairs. The question paper will have three parts, viz., A, B and C, each containing 4 questions. Candidates will be required to attempt 3 questions from each part.

#### *PART A—Physics*

Three states of matter. Simple measurements of length, mass and time.

Motion of particles in a straight line. Newton's Laws of motion. Uniform circular motion. Simple harmonic motion.

Equilibrium of bodies under the action of forces. Gravitation and gravity. Escape velocity.

Work, energy and power.

Principle of Archimedes. Floating bodies. Determination of specific gravity. Atmospheric pressure.

Measurement of temperature. Heat and expansion. Simple calorimetry. Gas Laws. Change of state. Heat as energy. Transmission of heat. Laws of Thermodynamics. Heat engines.

Wave motion. velocity of sound, vibrating bodies, Reverberation and echo.

Rectilinear propagation of light. Shadows and eclipses. Reflection and refraction. Mirrors lenses and prisms. The spectrum. Simple optical instruments.

Properties of magnet. Magnetic field and magnetic moment. Elements of the earth's magnetic field. Dia—Para—, and Ferro-magnetism.

Coulomb's law. The electric field. Potential and potential difference. Current and resistance. Conductor, semi-conductor and insulator. Ohm's law. Series and parallel combination of resistance. Galvanometers and Shunts. Ammeter and voltmeter. Potentiometer.

Heating effect, magnetic effect and chemical effect of electric current. Laws of electrolysis. Primary and storage cells. Battery chargers.

Generation and distribution of alternating current.

#### *PART B—Chemistry*

Physical and chemical changes. Laws of chemical combination. Atoms and molecules. Atomic weights, molecular weights, equivalent weights. Valency and chemical bonds. Periodic classification and elements. Oxidation and reduction—electronic concept.

Hydrogen, oxygen, ozone, water, hydrogen peroxide. Acids, bases and salts. Halogens, hydrogen halides and important oxyacids and oxy-salts of halogens. Sulphur, hydrogen sulphide, sulphur dioxide and sulphuric acid. Nitrogen, ammonia, oxides of nitrogen, nitric acid. Phosphorus, oxides of phosphorus, phosphoric acids. Carbon, carbon monoxide, carbon dioxide.

Occurrence of metals, and general principles of their extraction. Sodium, calcium, magnesium, aluminium, zinc, lead, tin, copper, silver, iron and their important compounds, alloys and their uses.

Elements of organic chemistry: Purification of and detection and estimation of elements in, organic compounds.

Aliphatic compounds: Hydrocarbons; halogen derivatives; alcohols; ethers; aldehydes and ketones; fatty acids, substituted fatty acids and polybasic acids; esters; acid chlorides and anhydrides; acid amides; amines; carbohydrates. Aromatic compounds: Benzene toluene and their halogen-nitro-hydroxy, and sulphonic acid derivatives; aniline and diazonium compounds; benzaldehyde; benzoic acid and benzoates; Salicylic acid and salicylides.

#### *PART C—General Knowledge including Geography, History and Current Affairs.*

#### *GENERAL—Eminent scientists and their achievements.*

Elementary knowledge of the human body and its important organs. Common epidemics, their causes means of prevention and cure.

#### *GEOGRAPHY*

Shape and movements of the earth. Seasons. Climate and weather. Main climatic and vegetable regions. Earth's crust, erosion, transportation and deposition. Earthquakes and volcanoes. Tides and ocean currents. Human occupations and activities in relation to geographical factors.

Geography of India with special reference to mountains, rivers and human occupations. Main industries and their distribution. Agriculture and important crops. Forests wealth. Flora and fauna of the land and the sea.

#### *HISTORY*

Broad outline knowledge of Indian History. Ancient Indian culture and civilization as inferred from monuments, Ancient buildings and literature. Growth of self-government in India, and the national struggle for freedom. The great religions of India.

Elementary knowledge of major events of international importance in world history, including important reforms and important industrial and national movements.

#### *CURRENT AFFAIRS*

Broad features of the Constitution of India. Important measures of legislation undertaken by the Parliament and the State legislatures in India. Basic features of India's policy relating to foreign affairs. Knowledge of important events that have happened in India and abroad during the past two years. Important personalities, both Indian and foreign. Sports and cultural activities of outstanding importance.

#### *MATHEMATICS—There will be two papers.*

Paper I—Algebra, Plane Geometry and Elementary mensuration and Analytical Geometry.

Paper II—Elementary Trigonometry Elements of Differential Calculus, and Statics and Dynamics.

The following syllabus is designed to indicate the scope of each subject included in these papers. The questions will be of a type to test the candidate's understanding of and the power of applying the basic principles of the subject rather than his knowledge of book work and standard methods.

#### *PAPER I*

##### *Algebra*

Formulae, their evaluation and transformation, notion of a function; rate of change; factors; fractions; the gradient and area of a graph; quadratic expressions; solution of equations, linear and quadratic simple and simultaneous, use of Logarithms; simple properties of positive, negative and fractional indices; Arithmetical and Geometrical progression.

*Plane Geometry and Elementary Mensuration of prism Pyramid, right circular cone and Cylinder*

The substance of Euclid's six books; elementary ideas in Solid Geometry; Planes, rectangular blocks, wedges, pyramids, cylinders, cones and spheres.

##### *Analytical Geometry*

Simple properties of straight lines, circle, parabola, ellipse and hyperbola.

**NOTE.**—Candidates will be allowed the use of four figure Log Tables.

## PAPER II

*Elementary Trigonometry*

Trigonometrical ratios and their graphs; addition theorems; identities; simple trigonometrical equations; heights and distances.

*Elements of differential Calculus*

Differentiation of simple functions, application to tangents and normals of simple curves.

*Statics and Dynamics*

*Statics*.—Coplaner forces; simple cases of equilibrium; moments; centre of gravity; work and power; simple machines.

*Dynamics*.—Velocity; acceleration; motion under gravity in a vertical plane and down a smooth inclined plane; motion of two masses connected by a string; conservation of energy.

NOTE.—Candidates will be allowed the use of four figure Log Tables.

## PERSONALITY TEST

*Psychological Tests*.—Candidates called for Personality Tests will be required to undergo psychological tests designed to assess their basic intelligence and mechanical aptitude.

*Interview*.—Each candidate will be interviewed by a Board who will have before them a record of his career both academic and extramural. They will be asked questions on matters of general interest. Special attention will be paid to assessing their potential qualities of leadership, initiative and intellectual curiosity, tact and other social qualities, mental and physical energy, power of practical application and integrity of character.

## APPENDIX II

## REGULATIONS FOR THE PHYSICAL EXAMINATION OF CANDIDATES FOR APPOINTMENT TO THE INDIAN RAILWAY SERVICE OF MECHANICAL ENGINEERS.

[These regulations are published for the convenience of candidates and in order to enable them to ascertain the probability of their coming up to the required physical standard. The regulations are also intended to provide guidelines to the medical examiners and a candidate who does not satisfy the minimum requirements prescribed in the regulations cannot be declared fit by the medical examiners. However while holding that a candidate is not fit according to the norms laid down in these regulations, it would be permissible for a Medical Board to recommend to the Government of India for reasons specifically recorded in writing that he may be admitted to service without disadvantage to Government.

It should, however, be clearly understood that the Government of India reserve to themselves absolute discretion to reject or accept any candidate after considering the report of the Medical Board.]

1. To be passed as fit for appointment a candidate must be in good mental and bodily health and free from any physical defect likely to interfere with the efficient performance of the duties of his appointment.

2. (a) In the matter of the correlation of age height and chest girth of candidates of Indian (including Anglo-Indian) race, it is left to the Medical Board to use whatever correlation figures are considered most suitable as a guide in the examination of the candidates. If there be any disproportion with regard to height weight and chest girth, the candidate should be hospitalised for investigation and X-Ray of the chest taken before the candidate is declared fit or not fit by the Board.

(b) However the minimum standards for height and chest girth, without which candidates cannot be accepted, are as follows :

	Height	Chest girth fully expanded	slon
Male candidates	152 cm	84 cm	5 cm
Female candidates	150 cm	79 cm	5 cm

The minimum height prescribed is relaxable in case of candidates belonging to races such as Gorkhas, Garhwalis, Assamese, Nagaland Tribals, etc., whose average height is distinctly lower.

3. The candidate's height will be measured as follows :—

He will remove his shoes and be placed against the standard with his feet together and the weight thrown on the heels and not on the toes or other sides of the feet. He will stand erect without rigidity and with the heels, calves, buttocks and shoulders touching the standards; the chin will be depressed to bring the vertex of the head level under the horizontal bar and the height will be recorded in centimetres and parts of a centimetre to halves.

4. The candidate's chest will be measured as follows :—

He will be made to stand erect with his feet together and to raise his arms over his head. The tape will be so adjusted round the chest that its upper edge touches the interior angles of the shoulder blades behind and lies in same horizontal plane when the tape is taken round the chest. The arms will then be lowered to hang loosely by the side and care will be taken that the shoulders are not thrown upwards or backwards so as to displace the tape. The candidate will then be directed to take a deep inspiration several times and the maximum expansion of the chest will be carefully noted, and the minimum and maximum will then be recorded in centimetres, thus 84—89, 86—93, etc. In recording the measurements, fractions of less than  $\frac{1}{2}$  centimetre should not be noted.

N.B.—The height and chest of the candidate should be measured twice before coming to a final decision.

5. The candidate will also be weighed and his weight recorded in kilograms; fractions of half a kilogram should not be noted.

6. The candidate's eye sight will be tested in accordance with the following rules. The result of each test will be recorded.

(i) *General*.—The candidate's eyes will be submitted to a general examination directed to the detection of any disease or abnormality. The candidate will be rejected if he suffers from any acute or morbid conditions of eyes, eye lids or contiguous structures of such a sort as to render or are likely at a future date to render him unfit for service.

(ii) *Visual Acuity*.—The examination for determining the acuteness of vision includes two tests one for distant, the other for near vision. Each eye will be examined separately.

There shall be no limit for minimum naked eye vision but the naked eye vision of the candidates shall, however be recorded by the Medical Board or other medical authority in every case, as it will furnish the basic information in regard to the condition of the eye.

The candidate will be examined with the apparatus and according to the method prescribed by the Railway Board's Standing Advisory Committee of Medical Officers, to determine his acuity of vision.

N.B.—No candidate will be accepted for appointment whose standard of vision does not come up to requirement specified below :

The standard of visual acuity with or without glasses should be as follows :—

	Distant	Vision	Near	Vision
	Better Eye	Worse Eye	Better Eye	Worse Eye
For candidates below 35 years of age.	6/6 or 6/9	6/12 or 6/9	II	J II

## NOTE : (1)

- (a) Total Myopia (including the cylinder) shall not exceed  $-4.00D$ .
- (b) Total Hypermetropia (including the cylinder) shall not exceed  $+4.00D$ .
- (c) In every case of myopia, fundus examination should be carried out and the results recorded. In the event of any pathological condition being present which is likely to be progressive and effect the efficiency of the candidate, he shall be declared unfit.

## NOTE : (2)

## Colour Vision :

The testing of colour vision is compulsory and the results should be normal in respect of all candidates. Satisfactory colour vision constitutes recognition of signal red, green and white colours with ease and without hesitation. Both the Ishihara's plates and Edridge's Green lantern shall be used for testing colour vision.

Colour preception should be graded into higher and lower grade depending upon the size of the aperture in the lantern as described below :

Grade	Higher Grade of Colour Preception	Lower Grade of Colour Preception
1. Distance between the lamp and the candidate . . . . .	16'	16'
2. Size of the aperture . . . . .	1.3 mm	1.3mm
3. Time for exposure . . . . .	5 seconds	5 seconds

Higher grade of colour preception is essential for Special Class Apprentices.

## NOTE : (3)

The field of vision shall be tested in respect of all Services by the confrontation method. Where such test gives unsatisfactory or doubtful results the field of vision should be determined on the perimeter.

## NOTE : (4)

## Night Blindness :

Night blindness need not be tested as a routine, but only in special cases. No standard test for the testing of night blindness or dark adaptation is prescribed. The Medical Board should be given the discretion to improvise such rough tests e.g. recording of visual acuity with reduced illumination or by making the candidate recognise various objects in a darkened room after he has been there for 20 to 30 minutes. Candidate's own statements should not always be relied upon, but they should be given due consideration.

## NOTE : (5)

## Ocular conditions other than visual acuity :

- (a) Any organic disease or a progressive refractive error which is likely to result in lowering the visual acuity should be considered as a disqualification.
- (b) *Squint* : The presence of binocular vision is essential, Squint, even if the visual acuity is of the prescribed standard, should be considered as a disqualification.
- (c) *One eyed person* : One eyed persons will not be eligible for appointment.

## NOTE : (6)

## Contact Lenses :

During the medical examination of a candidate, the use of contact lenses is not to be allowed. It is necessary that when conducting eye test, the illumination of the type letters for distant vision should have an illumination of 15 foot candles.

## NOTE : (7)

It shall be open to Government to relax any one of the conditions in favour of any candidate for special reasons.

## 7. Blood Pressure :

The Board will use its discretion regarding Blood Pressure. A rough method of calculating normal maximum systolic pressure is as follows :—

- (i) With young subjects 15—25 years of age the average is about 100 plus the age.
- (ii) With subjects over 25 years of age the general rule of 110 plus half the age seems quite satisfactory.

*N.B.*—As a general rule any systolic pressure over 140 and diastolic over 90 should be regarded as suspicious and the candidate should be hospitalised by the Board before giving their final opinion regarding the candidate's fitness or otherwise. The hospitalization report should indicate whether the rise in blood pressure is of a transient nature due to excitement etc. or whether it is due to any organic disease. In all such cases X-Ray and electrocardiographic examination of heart and blood urea clearance test should also be done as a routine. The final decision as to fitness or otherwise of a candidate will, however, rest with the medical board only.

## Method of taking Blood Pressure :

The mercury manometer type of instrument should be used as a rule. The measurement should not be taken within fifteen minutes of any exercise or excitement. Provided the patient, and particularly his arm is relaxed he may be either lying or sitting. The arm is supported comfortably, at the patient's side in a more or less horizontal position. The arm should be freed from clothes to the shoulder. The cuff completely deflated, should be applied with the middle of the rubber over the inner side of the arm and its lower edge an inch or two above the bend of the elbow. The following turns of cloth bandage should spread evenly over the bag to avoid bulging during inflation.

The brachial artery is located by palpitation at the bend of the elbow and the stethoscope is then applied lightly and centrally over it below, but not in contact with the cuff. The cuff is inflated to about 200 mm. Hg. and then slowly deflated. The level at which the column stands when soft successive sounds are heard represents the Systolic Pressure. When more air is allowed to escape the sounds will be heard to increase in intensity. The level at which well-heard clear sounds change to soft muffled fading sounds represents the diastolic pressure. The measurements should be taken in a fairly brief period of time as prolonged pressure of the cuff is irritating to the patient and will vitiate the readings. Re-checking if necessary, should be done only a few minutes after complete deflation of the cuff. (Sometimes, as the cuff is deflated sounds are heard at a certain level they may disappear as pressure falls and reappear at a still lower level. This Silent Gap may cause error in reading).

8. The urine (passed in the presence of the examiner) should be examined and the result recorded. Where a Medical Board finds sugar present in a candidate's urine by the usual chemical tests, the Board will proceed with the examination with all its other aspects and will also specially note any signs of symptoms suggestive of the diabetes if except for the glycosuria the Board finds the candidate conforms to the standard of medical fitness required, they may pass the candidate "fit subject to the glycosuria being non-diabetic" and the Board will refer the case to a specified specialist in Medicine who has hospital and laboratory facilities at his disposal. The Medical Specialist will carry out whatever examinations, clinical and laboratory, he considers necessary including a standard blood sugar tolerance test and will submit his opinion to the Medical Board, upon which the Medical Board will base its final opinion "fit" or "unfit". The candidate will not be required to appear in person before the Board on the second occasion. To exclude the effects of medication it may be necessary to retain a candidate for several days in hospital, under strict supervision.

9. A woman candidate who as a result of tests is found to be pregnant of 12 weeks standing or over, should be declared temporary unfit until the confinement is over. She should be re-examined for a fitness certificate six weeks after the date of confinement, subject to the production of a medical certificate of fitness from a registered medical practitioner.

10. The following additional points should be observed :—

- (a) that the candidates hearing in each ear is good and that there is no sign of disease of the ear. In case it is defective the candidate should be got examined by the ear specialist;
- (b) that his speech is without impediment;
- (c) that his teeth are in good order and that he is provided with dentures where necessary for effective mastication (well filled teeth will be considered as sound);
- (d) that the chest is well formed and his chest expansion sufficient and that his heart and lungs are sound;
- (e) that there is no evidence of any abdominal disease;
- (f) that he is not ruptured;
- (g) that he does not suffer from hydrocele, severe degree of varicocele, varicose veins or piles;
- (h) that his limbs, hands and feet are well formed and developed and that there is free and perfect motion of all his joints;
- (i) that he does not suffer from any inveterate skin disease;
- (j) that there is no congenital malformation or defect;
- (k) that he does not bear traces of acute or chronic disease pointing to an impaired constitution;
- (l) that he bears marks of efficient vaccination; and
- (m) that he is free from communicable disease.

11. Radiographic examination of the chest should be done as a routine in all cases for detecting any abnormality of the heart and lungs, which may not be apparent by ordinary physical examination.

When any defect is found it must be noted in the Certificate and the medical examiner should state his opinion whether or not it is likely to interfere with the efficient performance of the duties which will be required of the candidate.

NOTE.—Candidates are warned that there is no right of appeal from a Medical Board, special or standing appointed to determine their fitness for the above Service. If, however Government are satisfied on the evidence produced before them of the possibility of an error of judgment in the decision of the first Board, it is open to Government to allow an appeal to a second Board. Such evidence should be submitted within one month of the date of the communication in which the decision of the first Medical Board is communicated to the candidate, otherwise no request for an appeal to a second Medical Board will be considered.

If any medical certificate is produced by a candidate as a piece of evidence about the possibility of an error of judgment in the decision of the first Board, the certificate will not be taken into consideration unless it contains a note by the medical practitioner concerned to the effect that it has been given in full knowledge of the fact that the candidate has already been rejected as unfit for service by the Medical Board.

#### Medical Boards Report

The following intimation is made for the guidance of the Medical Examiner :

1. The standard of physical fitness to be adopted should make due allowance for the age and length of service, if any of the candidate concerned.

No person will be deemed qualified for admission to the Public Service who shall not satisfy Government, or the appointing authority, as the case may be, that he has no disease,

constitutional affection, or bodily infirmity unfitting him, or likely to unfit him for that service.

It should be understood that the question of fitness involves the future as well as the present and that one of the main objects of medical examination is to secure continuous effective service, and in the case of candidates for permanent appointment to prevent early pension or payments in case of premature death. It is at the same time to be noted that the question is one of the likelihood of continuous effective service, and that rejection of a candidate need not be advised on account of the presence of a defect which in only a small proportion of cases is found to interfere with continuous effective service.

A lady doctor will be co-opted as a member of the Medical Board whenever a woman candidate is to be examined.

The report of the Medical Board should be treated as confidential.

In cases where a candidate is declared unfit for appointment in the Government service, the grounds for rejection may be communicated to the candidate in broad terms without giving minute details regarding the defects pointed out by the Medical Board.

In cases where a Medical Board considers that minor disability disqualifying a candidate for Government service can be cured by treatment (medical or surgical) a statement to that effect should be recorded by the Medical Board. There is no objection to a candidate being informed of the Board's opinion to this effect by the appointing authority and when a cure has been effected it will be open to the authority concerned to ask for another Medical Board.

#### (a) Candidate's statement and declaration.

The candidate must make the statement required below prior to this Medical Examination and must sign the Declaration appended thereto. His attention is specially directed to the warning contained in the Note below :—

#### 1. State your name in full (in block letters)

.....  
 .....  
 .....  
 .....

#### 2. State your age and birth place

.....  
 .....

#### 2. (a) Do you belong to races such as Gorkhas, Garhwalis, Assamese, Nagaland Tribals etc. whose average height is distinctly lower ? Answer 'Yes' or 'No' and if the answer is 'Yes', state the name of the race.

#### 3. (a) Have you ever had smallpox, intermittent or any other fever, enlargement or suppuration of glands, spitting of blood, asthma, heart disease, lung disease, fainting attacks rheumatism, appendicitis ?

.....  
 .....

#### (b) any other disease or accident requiring confinement to bed and medical or surgical treatment ?

.....  
 .....

#### 4. When were you last vaccinated ?

.....  
 .....

5. Have you or any of your near relations been afflicted with consumption, scrofula, gout, asthma, fits, epilepsy, or insanity?
6. Have you suffered from any form of nervousness due to over-work or any other cause?

7. Furnish the following particulars concerning your family :—

Father's age if living and state of health	Father's age at death and cause of death	No. of brothers living, their ages and state of health	No. of brothers dead, their ages at and cause of death

Mother's age if living and state of health	Mother's age at death and cause of death	No. of sisters living, their ages and state of health	No. of sister dead, their ages at and cause of death

8. Have you been examined by a Medical Board before?

9. If answer to the above is yes, please state what Service/Services you were examined for ?

10. Who was the examining authority?

11. When and where was the Medical Board held?

12. Result of the Medical Board's examination if communicated to you or if known ?

I declare all the above answers to be, to the best of my belief, true and correct.

Candidate's Signature.....

Signed in my presence.

Signature of Chairman of the Board

**Note :—** The candidate will be held responsible for the accuracy of the above statement. By wilfully suppressing any information he will incur the risk of losing the appointment and, if appointed of forfeiting all claims to Superannuation Allowance or Gratuity.

(b) Report of the Medical Board on (name of candidate) physical examination.

1. General Development : Good.....  
 Fair.....Poor.....  
 Nutrition : Thin.....average.....  
 obese.....  
 Height (without shoes).....  
 Weight.....Best Weight.....  
 When?.....Any recent change  
 in weight?.....  
 Temperature.....

Girth of Chest :—

- (1) (After full inspiration)  
 (2) (After full expiration)

2. Skin : Any obvious disease.

3. Eyes :

- (1) Any disease.....  
 (2) Night blindness.....  
 (3) Defect in colour vision.....

- (4) Field of vision.....  
 (5) Visual Acuity.....  
 (6) Fundus Examination.....

Acuity of vision	Naked eye	With glasses	Strength of glasses		
			Sph.	Cyl.	Axis
Distant vision	R.E. L.E.				
Near vision	R.E. L.E.				

Hypermetropia (Manifest) R.E.  
L.E.

4. Ears : Inspection.....Hearing :

Right Ear.....Left Ear.....

5. Glands.....Thyroid.....

6. Condition of teeth.....

7. Respiratory System : Does physical examination reveal anything abnormal in the respiratory organs ?

If yes, explain fully.....

8. Circulatory System :

(a) Heart : Any organic lesions?.....

Rate : Standing.....  
 after hopping 25 times

2 minutes after hopping

Blood pressure : Systolic.....  
 Diastolic?.....

9. Abdomen Girth.....Tenderness.....  
 Hernia.....

(a) Palpable : Liver.....  
 Spleen.....Kidneys.....  
 Tumours.....

(b) Haemorrhoids.....Fistula.....

10. Nervous System: Indications of nervous or mental disabilities.

11. Loco-Motor System : Any abnormality.....

12. Genito Urinary System: Any evidence of Hydrocele, Varicocele etc:

Urine Analysis:

(a) Physical appearance.....(b) Sp.  
 Gr.....(c) Albumen..  
 (d) Sugar.....(e) Casts..  
 (f) Cells.....

13. Report of X-ray Examination of Chest.

14. Is there anything in the health of the candidate likely to render him unfit for the efficient discharge of his duties in the service for which he is a candidate ?

**NOTE :** In case of a female candidate, if it is found that she is pregnant of 12 weeks standing or over, she should be declared temporarily unfit, vide Regulation 9.

15. For which services has the candidate been examined and found in all respects qualified for the efficient and continuous discharge of his duties and for which of them is he considered unfit?

Date.....

Place.....

President.....

Member.....

## APPENDIX III

CONDITIONS OF APPRENTICESHIP FOR SPECIAL CLASS  
APPRENTICES SELECTED THROUGH THIS EXAMINATION

The terms and conditions of Apprenticeship will be as set out in the form of agreement prescribed in the Indian Railway Establishment manual, brief particulars of which are given below :—

1. A candidate selected for appointment as a Special Class Apprentice shall execute an agreement, binding himself and one surety jointly and severally to refund in the event of his failing to complete training to the satisfaction of the Central Government any moneys paid to him consequent on his appointment as Apprentice.

The apprentices will be liable to undergo practical and theoretical training for 4 years in the first instance under an indenture binding them to serve on the Indian Railways on the completion of their training, if their services are required. The continuance of apprenticeship from year to year will depend on satisfactory reports being received from the authorities under whom the apprentices may be working. If at any time during his apprenticeship any apprentice does not satisfy the superior authorities that he is making good progress, he will be liable to be discharged from the apprenticeship.

NOTE.—The Government of India may at their discretion alter or modify the periods and courses of training.

2. The practical and theoretical training referred to above will be given in a railway workshop for four years of their apprenticeship. Special Class Apprentices must pass within this period either Parts 1 and 2 of the Council of Engineering Institutions Examination (London) or Sections 'A' and 'B' of the Associate Membership of Institution of Engineers (India) Examination. The apprentices will be granted a stipend of Rs. 125 per mensem during the 1st & 2nd years and Rs. 175 per mensem during the 3rd and 4th years. During the apprenticeship the apprentices will be required to undergo training in four periods of one year each six months in the shops followed by six months in the School and will be examined at the end of each session. If unsuccessful at any of these examinations they will depending on their performance, be asked to sit for and pass in supplementary examination or reverted to the next lower batch or removed from apprenticeship.

NOTE.—Except as provided for in paragraph 4. below or in cases of discharge or dismissed due to insubordination, intemperance or other misconduct or breach of agreement, a week's notice of discharge from apprenticeship will be given.

3. Before the completion of 4th year of training referred to in paragraph 2 above, the apprentices will be listed in order of merit on the results of the examination held and the reports on the apprentices received during the period of apprenticeship. Successful apprentices will be appointed on probation for 3 years in the Indian Railway Service of Mechanical Engineers.

NOTE.—An apprentice will be considered to have obtained the qualifying standard if he obtains a minimum of 50 per cent. marks in the aggregate in all the examinations held during the 4 years of his training including the marks of the reports of the Principal, Indian Railways School of Mechanical and Electrical Engineering, Jamalpur and of the Deputy Chief Mechanical Engineer, provided that in each of the 4 years he has obtained a minimum of 45 per cent. marks in the aggregate and a minimum of 40 per cent. marks in any one subject.

4. Unsuccessful apprentices will be discharged from their apprenticeship, one month's notice of discharge being given along with the intimation that the apprentice has been unsuccessful.

5. During the 1st and 2nd years of probation they will be sent to one or more of the Indian Railways for undergoing training in accordance with the syllabus prescribed for the purpose as modified from time to time. The probationers may also be required to attend after working hours, a technical college or special lectures on Engineering subjects. They will be given an oral test at the end of each phase of training during these two years of training and at the end of the 2nd year, they will be given a written test to be conducted jointly by the Chief Mechanical Engineer and the Chief

Operating Superintendent of the Railway to which they are posted, on the training received by the probationers during this period. The qualifying marks at this test will be 50 per cent.

6. During the probationary period, they will have to attend a prescribed course of training in the Railway Staff College, Baroda, and to qualify in the tests held in the College. The test in the College is compulsory and a second chance, in the event of failure, will not be given except in exceptional circumstances and provided the record of the officers is such as to justify such relaxation being made. Failure to pass the test may involve the termination of service, and in any case, the officers will not be confirmed till they pass the test, their period of training and/or probation being extended as necessary. Before the end of second year of probation, they will be required to undergo a departmental examination which will include Accounting and Estimating, General and Subsidiary Rules, Factory Act, Workmen's Compensation Act, ability to handle labour and general application to work or works on which each officer is engaged while on probation. They will be required to pass the departmental examination with the second year of the probationary period. Failure to pass the examination may result in termination of service and will, in any case, involve stoppage of increments. In case, where the probationary period has to be extended for failing to pass any or all the departmental examination within the stipulated period on their passing the departmental examination and being confirmed after expiry of extended period of probation, the drawal of the first and subsequent increments will be regulated by the Rules and orders in force from time to time. It must be noted that a second chance to pass any examination will, as a rule, not be given except under exceptional circumstances and only provided the other record of the candidate during the period of his training is such as to justify such relaxation being made.

7. The appointment and pay as a probationer will commence from (a) the date of completion of four years of apprenticeship or (b) the actual date of completion of training whichever is later. Service for increment will subject to paragraph 6 above, count from the date of appointment as probationer.

NOTE 1.—The retention in service of the probationers and the grant of annual increments are subject to satisfactory reports on their work being received at the end of each year of probation.

NOTE 2.—Service as probationer may be terminated on 3 months notice on either side.

8. Particulars as to pay and general conditions of service prescribed for officers in the Indian Railway Service of Mechanical Engineers will be found in Appendix IV.

## APPENDIX IV

PARTICULARS REGARDING THE INDIAN RAILWAY SERVICE OF  
MECHANICAL ENGINEER

1. The probationary officers will be on probation for a period of three years during which their services will be liable to termination on three months' notice on either side. They shall undergo practical training for the first two years. Those who are reported upon and considered to have completed successfully the two years' training will be given charge of a working post provided they pass departmental and other examinations as may be prescribed. It must be noted that a second chance to pass any examination will, as a rule, not be given except under exceptional circumstances and only provided the other record of the candidate during the period of the training is such as to justify such a relaxation being made. Failure to pass the examination may result in the termination of service and will, in any case, involved stoppage of increment. At the end of one year in a working post the officers will be required to pass final examination both practical and theoretical and will, if successful be confirmed provided they are considered otherwise fit for permanent appointment. In cases, where the probationary period is extended for any reason on their passing the departmental examinations and being confirmed after expiry of the extended period of probation, the drawal of the first and subsequent increments will be regulated by rules and orders in force from time to time.

Probationers will also have to undergo training at the Railway Staff College, Baroda, in two phases, first training

the period of their two years training and again during the period when they hold working posts. The test in the college is compulsory and a second chance in the event of failure, will not be given except in exceptional circumstances and provided the record of the officer is such as to justify such relaxation being made. Failure to pass the test may involve the termination of services and in any case, the officers will not be confirmed till they pass the test, their period of training and/or probation being extended as necessary.

NOTE.—The period of training and the period of probation against a working post may be modified at the discretion of Government. If the period of training is extended in any case due to the training not having been completed satisfactorily, the total period of probation will be correspondingly extended.

2. Probationers should have already passed or should pass during the period of probation, an examination in Hindi in the Devanagari script of an approved standard. This examination may be the "PRAVEEN" Hindi Examination which is conducted by the Directorate of Education, Delhi, or one of the equivalent Examinations recognised by the Central Government.

No probationary officer can be confirmed or his pay in the time scale raised to Rs. 450.00 per month unless he fulfils this requirement; and failure to do so will involve liability to termination of service. No exemption can be granted.

3. Any person appointed to the Indian Railway Service of Mechanical Engineers on the results of the Examination held in 1965 onwards shall, if so required, be liable to service in any Defence Service or post connected with the Defence to India for a period of not less than four years including the period spent on training, if any :—

Provided that such a person

- (a) shall not be required to serve as aforesaid after the expiry of ten years from the date of appointment as probationer;
- (b) shall subscribe to the State Railway Non-Contribution after training the age of forty years.

4. Officers of the Indian Railway Service of Mechanical Engineers recruited under these Regulations,

- (a) will be eligible to pensionary benefits; and
- (b) shall subscribe to the State Railway Non-Contribution Provident Fund under the Rules of that Fund;

as applicable to Railway Servants appointed on the date they join service.

5. Pay will commence from the date of joining service as a probationer. Service for increments will also count from the same date subject to paragraph 1 above. Particulars as to pay are contained in paragraph 9 of this Appendix.

6. Officers recruited under these regulations shall be eligible for leave in accordance with the rules for the time being in force applicable to officer of Indian Railways.

7. Officers will ordinarily be employed throughout their service on the Railway to which they may be posted on first appointment and will have no claim, as a matter of right to transfer to some other Railway but the Government of India reserve the right to transfer such officers in the exigencies of service, to any other Railway or Project in or out of India. Officers will be liable to serve in the Stores Department of Indian Railways if and when called upon to do so.

8. The relative seniority of officers recruited on the results of the Special Class Railway Apprentices' Examination will ordinarily be determined by the order of merit at the end of their first four years training, while in the case of those recruited on the results of the Combined Engineering Services Examination, the relative seniority will ordinarily be determined by the order of merit in the competitive examination. As between the officers recruited through Special Class Railway Apprentices' Examination and those recruited through Combined Engineering Services Examination, seniority will be determined on the basis of entry in the time scale subject to *inter-se* seniority of each batch being maintained. The Government of India, however, reserve the right of fixing seniority at their discretion in individual cases. They also reserve the right of assigning to officers appointed otherwise than by the two examinations referred to above, position in the seniority list at their discretion.

NOTE.—If the period of training and consequently the period of probation is extended in any particular case due to the training not having been completed satisfactorily, the officer concerned is liable to lose in seniority.

9. The following are the rates of pay at present admissible to officers appointed to Indian Railway Service of Mechanical Engineers.

Junior Scale : Rs. 400—400—450—30—600—35—670—EB—35—950 (authorised Scale).

Senior Scale : Rs. 700 (1st to 6th year)—40—1,100—50/2—1,250 (authorised Scale).

Junior Administrative Grade : Rs. 1,300—60—1,600.

Intermediate Administrative Grade : Rs. 1,600—100—1,800.  
Senior Administrative Grade : Rs. 2,000—100—2,500.

NOTE 1.—Probationary officers will start on the minimum of the Junior Scale and will count their service for increments from the date of joining. They will, however, be required to pass any departmental examination or examinations that may be prescribed before their pay can be raised from Rs. 400.00 p.m. to Rs. 450.00 p.m. in the time scale.

NOTE 2.—Increment from Rs. 400.00 to Rs. 450.00, will be stopped if they fail to pass departmental examinations within the first two years of the training and probationary period. In cases where the training period has to be extended for failure to pass all the departmental examinations within the stipulated period, on their passing the departmental examinations after expiry of the extended period of training, their pay from the date following that on which the last examination ends, will be fixed at the stage in the time scale which they would have otherwise attained but no arrears of pay would be allowed to them. In such cases the date of future increments will not be affected.

NOTE 3.—Advance increments from Rs. 400 to Rs. 450 and from Rs. 450 to Rs. 480 in the junior scale of Rs. 400—950 may, however, be granted during the period of probation as soon as the probationary officer passes the prescribed examinations. After the grant of advance increments, the pay of the officer will be regulated according to his position in the time scale.

10. The increments will be given for approved service only and in accordance with the rules of the Department.

11. Promotions to the Administrative grades are dependent on the occurrence of vacancies in the sanctioned establishment and are made wholly by selection; mere seniority does not confer any claim for such promotion.

